

ROTTER-YODER & ASSOCIATES
BARRETT & ASSOCIATES
CONSULTING ENGINEERS

MAC

MID - COASTSIDE
AREA
CONSULTANTS

RESOURCES ENGINEERING
& MANAGEMENT
CONSULTING ENGINEERS

July 12, 1979

Sewer Authority Mid-Coastside
501 Main Street
Half Moon Bay, California 94019

Attention: Mr. Fred Mortensen

Re: SAM Wastewater Management Facilities, Phase I,
Scope of Work, Budget and Schedule for
Step III Engineering Services.

Ref: P-General

Attachment 6

Dear Mr. Mortensen:

Pursuant to the terms of the Agreement for Engineering Services between MAC and SAM executed in April 1976, attached for your review and approval are the scope of work, budget and schedule for the Step III engineering services for Phase I of SAM Project. Phase I of the project consists of the following:

- Project Unit 1 - Intertie Pipelines
- Project Unit 2 - Pumping Stations
- Project Unit 4 - Ocean Outfall and Effluent Pump Station
- Project Unit 5 - Reclamation Pipeline

Step III activities consist of construction of the above facilities in accordance with previously submitted plans and specifications to your office. Additionally, these activities include preparation of the required operations and maintenance manual for the constructed facilities, provision of construction management and startup services.

The Agreement for Engineering Services mentioned above, specifies that payments for each phase of the project be negotiated at the time work is authorized. The proposed services will be compensated for on the basis of a cost-plus-a-fixed fee method. In this method of compensation, the engineer is compensated for actual costs incurred while the "fixed fee" remains unchanged unless there is a significant increase in the scope of work. If this occurs, a new "cost and fixed fee" must be negotiated.

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Please Respond To:

☐ TYA - 3730 Mt. Diablo Blvd.
Lafayette, Calif. 94549
(415) 284-2980

☐ B&A - 111 First Street
Los Altos, Calif. 94022
(415) 941-9900

☒ REM - 343 El Camino Real
South San Francisco, Calif. 94080
(415) 877-1000

July 12, 1979

State and Federal regulations require that cost-plus-a-fixed-fee contracts provide for a limiting cost which cannot be changed without an amendment to the contract. In accordance with the above requirements, it is proposed that engineering services be compensated for with a limiting cost as follows:

| | REM | | | B&V | B,H&A | |
|--|------------|-----------|-----------|-----------|------------|-----------|
| | Unit 1 | Unit 2 | Unit 5 | CM | Unit 4 | Unit 4 |
| Step III Estimated Cost of Engineering Services: | 154,645.60 | 60,118.00 | 63,052.40 | 41,180.00 | 165,538.95 | 20,184.01 |
| Fixed Fee: | 7,415.18 | 6,436.42 | 2,636.26 | 5,569.20 | 18,000.00 | 3,027.60 |
| Total Engineering Cost: | 162,060.78 | 66,554.42 | 65,688.66 | 46,749.20 | 183,538.95 | 23,211.61 |
| Contingency @ 10%: | 16,206.08 | 6,655.44 | 6,568.86 | 4,674.92 | 18,353.89 | 2,321.16 |
| Total Limiting Cost: | 178,266.86 | 73,209.86 | 72,257.52 | 51,424.12 | 201,892.84 | 25,532.77 |

The overall Step III engineering services costs for Phase I of SAM project are as follows:

| | |
|--|------------------|
| Step III Cost of Engineering Services: | \$ 504,718.96 |
| Fixed Fee: | 43,084.66 |
| Contingency @ 10%: | <u>54,780.35</u> |
| TOTAL ESTIMATED ENGINEERING SERVICES: | \$ 602,583.97 |

Attached are detailed tasks for the Step III services and a breakdown of man-hours and costs.

Step III engineering work in the area of preaward services has commenced per your authorization of March 14, 1979. The work and budget presented herein are for a period of construction of 18 (eighteen months). Should construction extend beyond that time limit, an addendum to the engineering fees would be negotiated, unless such delays result from delays of engineer other than directly attributed to normal construction activities.

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Mr. Fred Mortensen

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July 12, 1979

The submitted budget includes services for Project Units 1, 2, 4 and 5. As you know actual bids for Units 1 and 4 have been received and awarding these two contracts is forthcoming. Moreover, Project Unit 2 will be advertised in the near future. It is respectfully requested that SAM approve the submitted budget for the above project units with the understanding that services for Units 2 and 5 may change upon receipt of construction bids, and budgets for Units 1 and 4 may be adjusted upon receipt of the actual proposals from sub-contractors.

For authorization to commence the work, please sign at the location below and return a copy of this letter to our office. As a result of our negotiations this submittal supersedes our previous submittal of April 10, 1979.

Please call if you should have any questions.

Very truly yours,

MID-COASTSIDE AREA CONSULTANTS


KAMIL S. AZGURY, P.E.

Enclosures: Scopes of Work
5700-41 Forms and Supplemental Information
Summary of Estimated Costs
Summary of Man-Hours
Preliminary Schedules

Acceptance and Authorization to Proceed on outlined Step III Engineering Services.

SEWER AUTHORITY MID-COASTSIDE

X _____

Date

cc: Ed Fernbach, Black & Veatch
Mike Maggi, Barrett, Harris & Associates

KSA:kjs

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STATEMENT REGARDING NEGOTIATIONS FOR SUBAGREEMENT TO PROVIDE PROFESSIONAL
ENGINEERING SERVICES FOR STEP III CONSTRUCTION OF SAM INTERTIE PIPELINES,
PUMP STATIONS, OCEAN OUTFALL AND RECLAMATION LINE.

Federal regulations (Section 35.937-5 (C-1) Federal Register) regarding negotiations of engineering subagreements require the following four items be discussed during the negotiations.

1. The scope and extent of work and other essential features;
2. Identification of the personnel and facilities necessary to accomplish the work within the required time, including where needed, employment of additional personnel, subcontracting, joint ventures, etc.
3. Provision of the required technical services in accordance with regulations and criteria established for the project;
4. A fair and reasonable price for the required work, to be determined in accordance with the cost and profit considerations set forth in Sections 35-937-6 and 35-937-7 (of these regulations), and payment provisions.

I hereby certify that the above items were discussed during negotiations for this phase of the project.

SEWER AUTHORITY MID-COASTSIDE

X _____

Date _____

PART I - GENERAL

| | | |
|---|--|--|
| 1. GRANTEE Sewer Authority Mid-Coastside | | 2. GRANT NUMBER C-06-1022 |
| 3. NAME OF CONTRACTOR OR SUBCONTRACTOR Resources Engineering & Management | | 4. DATE OF PROPOSAL July 11, 1979 |
| 5. ADDRESS OF CONTRACTOR OR SUBCONTRACTOR (Include ZIP code) 343 El Camino Real South San Francisco California 94080 | | 6. TYPE OF SERVICE TO BE FURNISHED STEP III Engineering Services for Bid Period and Construction Activities of Project Unit 1 |

PART II - COST SUMMARY

| DIRECT LABOR (Specify labor categories) | ESTI- MATED HOURS | HOURLY RATE | ESTIMATED COST | TOTALS |
|---|-------------------------|----------------|-------------------|--------------|
| Principal | 50 | \$24.00 | \$ 1,200.00 | |
| Project Manager | 100 | 17.00 | 1,700.00 | |
| Project Engineer | 416 | 13.00 | 5,408.00 | |
| Staff Engineer | 1040 | 11.50 | 11,960.00 | |
| Engineering Technician | 150 | 9.00 | 1,350.00 | |
| Clerical | 82 | 5.50 | 451.00 | |
| DIRECT LABOR TOTAL: | | | | |
| INDIRECT COSTS (Specify indirect cost pools) | RATE | x BASE = | ESTIMATED COST | |
| General | 1.4 | \$ 22,069.00 | \$ 30,896.60 | |
| | | | | |
| INDIRECT COSTS TOTAL: | | | | \$ 30,896.60 |
| OTHER DIRECT COSTS | | | | |
| a. TRAVEL | | | ESTIMATED COST | |
| (1) TRANSPORTATION 70 miles @ \$0.15/mile for 300 trips | | | \$ 3,200.00 | |
| (2) PER DIEM | | | \$ | |
| TRAVEL SUBTOTAL: | | | \$ 3,200.00 | |
| b. EQUIPMENT, MATERIALS, SUPPLIES (Specify categories) | | | ESTIMATED COST | |
| Xeroxing, Printing | | | \$ 480.00 | |
| | | | | |
| | | | | |
| EQUIPMENT SUBTOTAL: | | | 480.00 | |
| c. SUBCONTRACTS | | | ESTIMATED COST | |
| Surveying | | | \$ 80,000.00 | |
| Soils | | | 18,000.00 | |
| SUBCONTRACTS SUBTOTAL: | | | \$ 98,000.00 | |
| d. OTHER (Specify categories) | | | ESTIMATED COST | |
| | | | \$ | |
| OTHER SUBTOTAL: | | | \$ | |
| e. OTHER DIRECT COSTS TOTAL: | | | \$ 101,680.00 | |
| f. TOTAL ESTIMATED COST | | | \$ 154,645.60 | |
| XXXXXX Fee 14% | | | \$ 7,415.18 | |
| g. TOTAL PRICE | | | \$ 162,060.78 | |

SEWER AUTHORITY MID-COASTSIDE
PHASE I STEP III CONSTRUCTION SERVICES
SUMMARY OF ESTIMATED COST-REM
PROJECT UNITS 1

This Budget has been prepared for 12 month construction period.

| | |
|---|-----------------|
| I. <u>BASIC A/E SERVICES</u> | |
| A. Assistance during bidding. | |
| B. Review contractor submittals. | |
| C. Other Standard Services. | |
| SUBTOTAL:----- | \$19,600.00 |
| II. <u>CONTRACT ADMINISTRATION</u> | |
| A. Change Orders. | |
| B. Payments, Etc. | |
| SUBTOTAL:----- | 5,600.00 |
| III. <u>INSPECTION AND RESIDENT ENGINEERING</u> ----- | 23,765.60 |
| IV. <u>SUBCONTRACTORS</u> | |
| A. Surveyor ----- | 80,000.00 |
| B. Soils ----- | <u>1,800.00</u> |
| SUBTOTAL:----- | 98,000.00 |
| V. <u>SPECIAL SERVICES</u> | |
| A. As-Built Plans ----- | 2,000.00 |
| B. Qther ----- | <u>2,000.00</u> |
| SUBTOTAL:----- | 4,000.00 |
| VI. <u>OTHER COST FACTORS</u> | |
| A. Travel and Expenses (20,000 miles) ----- | 3,200.00 |
| B. Printing ----- | <u>480.00</u> |
| SUBTOTAL: ----- | 3,680.00 |

\$154,645.60

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VII. FEES

| | |
|--|---------------------|
| A. Basic A/E. Design ----- | \$ 2,744.00 |
| B. Contract Administration ----- | 784.00 |
| C. Inspection and Resident Engineering ----- | 3,327.18 |
| D. Special Services ----- | <u>560.00</u> |
| SUBTOTAL: ----- | \$ 7,415.18 |
| | |
| Subtotal of Engineering Services Costs ----- | 162,060.78 |
| 10% Contingency ----- | 16,206.08 |
| | |
| TOTAL ESTIMATED ENGINEERING SERVICES COSTS: | <u>\$178,266.86</u> |

SEWER AUTHORITY MID-COASTSIDE
PROJECT UNIT 1 - INTERTIE PIPELINES
SUMMARY OF MAN-HOURS
AND
DIRECT LABOR COSTS

| <u>Labor Categories</u> | <u>Approximate Hours/Week</u> | <u>Total Hours</u> | <u>Hourly Rate</u> | <u>Total Cost</u> |
|-----------------------------|-----------------------------------|------------------------|------------------------|-----------------------|
| Principal | 1 | 50 | \$24.00 | \$ 1,200.00 |
| Project Manager | 2 | 100 | \$17.00 | \$ 1,700.00 |
| Project Engineer | 8 | 416 | \$13.00 | \$ 5,408.00 |
| Staff Engineer | 20 | 1040 | \$11.50 | \$11,960.00 |
| Engineering Technician | 3 | 150 | \$ 9.00 | \$ 1,350.00 |
| Clerical | 1.5 | 82 | \$ 5.50 | \$ <u>451.00</u> |
| TOTAL | | | | \$22,069.00 |

Project Unit 1 Construction Period is assumed to be 12 months.